EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	thomas near guyette.in.	US-PGPUB; USPAT	OR	ON	2007/02/07 11:02
S2	67947	(ibm or "international business machines").as.	US-PGPUB; USPAT	OR	ON	2007/02/07 11:03
S3	64	S2 and (question and answer).clm.	US-PGPUB; USPAT	OR	ON	2007/02/07 11:03
S4	32	S3 and (develop$4 or implement$4 or deploy$4 or creat$4).clm.	US-PGPUB; USPAT	OR	ON	2007/02/07 11:04
S5	1131	717/100-103.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 11:19
S6	97	S5 and question and answer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 11:20
S9	15	S6 and (data$1base or data$1store) and (meta$1data or meta$1tag or meta$1info)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:22
S10	79	S6 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:29
S11	22	("5301326" | "5315703" | "5423023" | "5485569" | "5754858" | "5852733" | "5859637" | "5893105" | "5966532" | "6018627" | "6053951" | "6093215" | "6119101" | "6170081" | "6182279" | "6282709" | "6337696" | "6407753" | "6446260" | "6563522" | "6601233" | "6718535").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 12:09
S12	46160	question and answer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:20

EAST Search History

S13	3483	S12 and (software near3 develop$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:22
S14	445	S13 and (data$1base or data$1store) and (meta$1data or meta$1tag or meta$1info)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:22
S16	198	S14 and (system near design$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:27
S17	11	S16 and (meta$1data adj tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:27
S18	144	S16 and ((name or identifier) with (data$1base or data$1store))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:59
S19	113	S18 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:18
S20	73	S16 and (design$4 adj decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:38
S21	52190	(stor$4 near data) with (data$1base or data$1store)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 12:59

S22	4803	S21 and question and answer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:00
S23	1339	S22 and ((develop$4 or implement$4 or creat$4 or deploy$4) near software)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:02
S24	267	S23 and (meta$1data or meta$1tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:13
S25	16	S24 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:05
S26	52256	(inquiry or question) and answer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:12
S27	5293	S26 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:13
S28	728	S27 and (meta$1data or meta$1tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:13
S29	281	S28 and ((develop$4 or implement$4 or creat$4 or deploy$4) near software)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:09

S30	155	S29 and (data near collect$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:14
S31	138	S30 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:14
S32	14	("4837689" | "4860214" | "5084819" | "5319740" | "5333237" | "5347614" | "5379057" | "5539869" | "5542024" | "5596752").PN. OR ("5960419"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 13:25
S33	17550	S21 and (policy or rule)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:09
S34	4290	S33 and ((develop$4 or implement$4 or creat$4 or deploy$4) near software)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:09
S35	3251	S34 and (inquiry or query or question)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:16
S36	649	S35 and (software near design$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:16
S37	149	S36 and ((data near stor$4) with (policy or rule))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:18

S38	143	S37 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:07
S39	2375	S21 and ((expert adj system) or (knowledge adj base))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:27
S40	373	S39 and (meta$1data or meta$1tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:28
S41	121	S40 and (software adj system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:28
S42	112	S41 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:28
S43	101	("20050132324" "5920862" "20030177102" "3855256" "4077911" "4243689" "4363823" "4369198" "5593669" "5693358" "5753281" "5920328" "6090379" "6147237" "6147716" "6261608" "7008661" "7026442" "7114657" "7138009" "7141103" "20020169277" "20030144355" "20030176214" "20030198727" "20040015000" "20040062847" "20050024496" "20050127187" "20050202148" "20050220958" "20050279247" "20050279248" "20050279249" "5278025" "5428470" "5555369" "4322801" "4621319" "5392403" "5436659" "5506787" "5583983" "5594890" "5822205" "5850562" "5849602" "5863694" "5991907" "6003150"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 14:37

S44	16	("20030130973" | "4866635" | "5546507" | "5555191" | "5583758" | "5608898" | "5627908" | "5745712" | "5748850" | "5899985" | "5960419" | "6067523" | "6108665" | "6212677" | "6484189" | "6493686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 15:01
S45	2919	design$4 adj decision	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:06
S46	128	S45 and (decision adj tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:07
S47	4	S46 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:06
S48	94	S46 and (inquiry or query or question)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:07
S49	69	S48 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:07
S50	18	(US-7139999-$ or US-6223343-$ or US-6167563-$ or US-7165092-$ or US-7073164-$ or US-6877153-$ or US-6895573-$ or US-6725447-$ or US-6871340-$ or US-6643660-$ or US-5960419-$ or US-6018627-$ or US-7171585-$ or US-6996768-$ or US-6035283-$ or US-5673369-$ or US-6236994-$ or US-6615258-$).did.	USPAT	OR	ON	2007/02/08 07:37

S51	0	S50 and ((data$1base or data$1store) near3 (name or identifier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 07:38
S52	15	S50 and (data$1base or data$1store)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 07:38
S55	4	("5644686" "5745895").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 07:42
S56	1136	717/100-103.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 08:17
S57	525	S56 and (inquiry or query or question)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 08:18
S58	315	S57 and (answer or reply or rule)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 08:18
S59	25	S58 and ((design$4 or implement$4) near3 decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 08:18
S60	22658	(name or identifier) near3 (data$1base or data$1store)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:07

EAST Search History

S61	2315	S60 and meta$1data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:07
S62	81	S61 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:08
S63	56	S62 and (@pd<"20031215" or @ad<"20031215" or @prad<"20031215" or @rlad<"20031215")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:08

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1　Human and Social Factors of Software Engineering (HSSE): A qualitative empirical evaluation of design decisions
Carmen Zannier, Frank Maurer
May 2005　**ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Human and social factors of software engineering HSSE '05**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(119.37 KB)　Additional Information: full citation, abstract, references, index terms

> In this paper, we motivate examining software design decision making and provide the process by which the examination will occur. The objective is to provide qualitative results indicative of rational or naturalistic software design decision making. In a rational decision a decision maker evaluates decision alternatives and potential outcomes for each alternative using a utility function and probabilities of the outcome of each alternative. The utility function assigns a value to each possible a ...
>
> **Keywords**: empirical, interviews, naturalistic decision, observations, qualitative, rational decision

2　A field study of the software design process for large systems
Bill Curtis, Herb Krasner, Neil Iscoe
November 1988　**Communications of the ACM**, Volume 31 Issue 11
Publisher: ACM Press
Full text available: 📄 pdf(2.50 MB)　Additional Information: full citation, abstract, references, citings, index terms, review

> The problems of designing large software systems were studied through interviewing personnel from 17 large projects. A layered behavioral model is used to analyze how three of these problems—the thin spread of application domain knowledge, fluctuating and conflicting requirements, and communication bottlenecks and breakdowns—affected software productivity and quality through their impact on cognitive, social, and organizational processes.

3　Software design: Documenting design decision rationale to improve individual and team design decision making: an experimental evaluation
Davide Falessi, Giovanni Cantone, Martin Becker
September 2006　**Proceedings of the 2006 ACM/IEEE international symposium on International symposium on empirical software engineering ISESE '06**
Publisher: ACM Press
Full text available: 📄 pdf(289.16 KB)　Additional Information: full citation, abstract, references, index terms

Individual and team decision-making have crucial influence on the level of success of every software project. Even though several studies were already conducted, which concerned design decision rationale documentation approaches, a few of them focused on performances and evaluated them in laboratory. This paper proposes a technique to document design decision rationale, and evaluates experimentally the impact such a technique has on effectiveness and efficiency of individual/team decision-making ...

Keywords: design decision rationale, experimental evaluation, individual and team decision-making

4 Inside a software design team: knowledge acquisition, sharing, and integration

Diane B. Walz, Joyce J. Elam, Bill Curtis
October 1993 **Communications of the ACM**, Volume 36 Issue 10
Publisher: ACM Press

Full text available: pdf(4.84 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: case study, empirical studies of software development, requirements determination, software design teams, software management

5 Economics-Driven Software Engineering Research (EDSER): A value-oriented theory of modularity in design
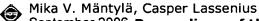
Yuanfang Cai, Kevin J. Sullivan
May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the seventh international workshop on Economics-driven software engineering research EDSER '05**, Volume 30 Issue 4
Publisher: ACM Press

Full text available: pdf(90.21 KB)   Additional Information: full citation, abstract, references, index terms

We were motivated to undertake the research we describe here by a conversation with two practicing software engineers, who described a dilemma they faced at work. They worked for small company that earned revenues by delivering to a large customer a stream of enhancements to a software tool. The engineers' jobs were to estimate the time to make enhancements and to implement selected enhancements. They were good at estimating, but dissatisfied with the system design, believing that it significant ...

6 Architecture and refactoring: Drivers for software refactoring decisions

Mika V. Mäntylä, Casper Lassenius
September 2006 **Proceedings of the 2006 ACM/IEEE international symposium on International symposium on empirical software engineering ISESE '06**
Publisher: ACM Press

Full text available: pdf(421.60 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents an empirical study of drivers for software refactoring decisions. We studied the refactoring decisions made by 37 students evaluating ten methods of a purposefully constructed Java program. The decision rationales reported by the evaluators were coded to identify the drivers behind the decisions. The identified drivers were categorized into Structure, Documentation, Visual Representation, and General drivers. The evaluators had conflicting opinions both regarding the internal ...

Keywords: code smells, evolvability, maintainability, qualitative analysis, refactoring

7 Posters: Identification of question types and answer types for an explanation component in software release planning

Gengshen Du, Guenther Ruhe
October 2005 **Proceedings of the 3rd international conference on Knowledge capture K-CAP '05**
Publisher: ACM Press
Full text available: pdf(154.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Acceptance of decision support offered by software systems is largely determined by the degree of acceptance and understanding of system results from the users. The generation of explanations helps the user of the software systems to better understand and utilize system outputs. Explanations can be generated and conveyed through dialogues. One way to achieve dialogues is to use question types and answer types. This paper presents an overview of the identification of question types and answer typ ...

Keywords: dialogue, explanation, question answering, release planning

8 <u>A generic model for reflective design</u>
Panagiotis Louridas, Pericles Loucopoulos
April 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 9 Issue 2
Publisher: ACM Press
Full text available: pdf(304.45 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Rapid technological change has had an impact on the nature of software. This has led to new exigencies and to demands for software engineering paradigms that pay particular atttention to meeting them. We advocate that such demands can be met, at least in large parts, through the adoption of software engineering processes that are founded on a reflective stance. To this end, we turn our attention to the field of Design Rationale. We analyze and characterize Design Rationale approaches and s ...

Keywords: design aids, design rationale, development, participative, reflective

9 <u>Data base directions: the next steps</u>
John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2
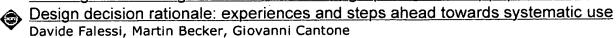**Publisher:** ACM Press
Full text available: pdf(9.95 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

10 <u>SHAring and Reusing architectural Knowledge (SHARK '2006) paper abstracts:</u>
<u>Design decision rationale: experiences and steps ahead towards systematic use</u>
Davide Falessi, Martin Becker, Giovanni Cantone
September 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(171.83 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Design decisions crucially influence the success of every software project. While the resulting design is typically documented quite well, the situation is usually different for

the underlying rationale and decision-making process. Despite being recognized as a helpful approach in general, the explicit documentation of Design Decision Rationale (DDR) is not yet largely utilized due to some inhibitors (e.g., additional documentation effort). Experience with other qualities, e.g. software reusabil ...

Keywords: ambient intelligence, design decision rationale, software analysis and design, value-based software engineering

11 <u>Expert systems: true support for the process of decision making</u>
Edgar A. Whitley
September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems SIGBDP '90**
Publisher: ACM Press
Full text available: pdf(1.50 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

12 <u>Software economics: a roadmap</u>
Barry W. Boehm, Kevin J. Sullivan
May 2000 **Proceedings of the Conference on The Future of Software Engineering ICSE '00**
Publisher: ACM Press
Full text available: pdf(2.58 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

13 <u>Product-line reuse for Ada systems</u>
James R. Hamilton, Harold G. Hawley, Clinton J. Lalum
November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world TRI-Ada '95**
Publisher: ACM Press
Full text available: pdf(1.34 MB)   Additional Information: <u>full citation</u>, <u>references</u>

Keywords: application engineering, application modeling, asset retrieval and adaption, domain engineering, domain-specific, object-oriented, product-line, rule-based adaption, software reuse

14 <u>User interfaces for privacy agents</u>
Lorrie Faith Cranor, Praveen Guduru, Manjula Arjula
June 2006 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(1.82 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Most people do not often read privacy policies because they tend to be long and difficult to understand. The Platform for Privacy Preferences (P3P) addresses this problem by providing a standard machine-readable format for website privacy policies. P3P user agents can fetch P3P privacy policies automatically, compare them with a user's privacy preferences, and alert and advise the user. Developing user interfaces for P3P user agents is challenging for several reasons: privacy policies are comple ...

Keywords: P3P, preferences, privacy, privacy enhancing technology, privacy policy, user agent

15 <u>Special issue: AI in engineering</u>
D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

16 <u>Fast detection of communication patterns in distributed executions</u>
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer, developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 <u>Decision making: a missing facet of effective documentation</u>
Michael J. Albers
October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle SIGDOC '96**
Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

18 <u>Teaching patterns and software design</u>
Ian Warren
January 2005 **Proceedings of the 7th Australasian conference on Computing education - Volume 42 ACE '05**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(242.74 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper we describe our experiences with reengineering an undergraduate course in software design. The course's learning outcomes require that students can model, design and implement software. These are inherently practical skills and rely on *functioning* knowledge. To facilitate a learning environment in which students can acquire the necessary deep level of understanding, we have designed the course by applying the educational theory of *constructive alignment* and a number o ...

Keywords: JUnit, UML, active and peer learning, constructive alignment, design patterns, formative and holistic assessment

19 <u>Modeling software design diversity: a review</u>
Bev Littlewood, Peter Popov, Lorenzo Strigini
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press
Full text available: pdf(259.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Design diversity has been used for many years now as a means of achieving a degree of fault tolerance in software-based systems. While there is clear evidence that the approach can be expected to deliver some increase in reliability compared to a single version, there

is no agreement about the extent of this. More importantly, it remains difficult to evaluate exactly how reliable a particular diverse fault-tolerant system is. This difficulty arises because assumptions of independence of fai ...

Keywords: *N*-version software, control systems, functional diversity, multiple version programming, protection systems, safety, software fault tolerance

20 The effect of decision style on the use of a project management tool: an empirical laboratory study
Terry L. Fox, J. Wayne Spence
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Managing a software development project presents many difficulties. Most software development projects are considered less than successful, and many are simply cancelled. Ineffective project management has been cited as a major factor contributing to these failures. Project management tools can greatly assist managers in tracking and controlling their projects. However, their structured and analytical nature does not necessarily match the decision-making styles of project managers.This paper pre ...

Keywords: decision making, decision style, project management software, project managers

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